BOWEN UNIVERSITY, IWO, OSUN STATE COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE INDUSTRIAL CHEMISTRY PROGRAMME 2022/2023 B.SC DEGREE SECOND SEMESTER EXAMINATION

Course Code: CHM 204 Date: 22/06/2023	Courses Title: General Chemic Credit: 1 Time Allo	owed: 1 hour
INSTRUCTIONS (a) Answer all questions on the questions paper (b) Write legibly your details on the space provided		
NAME:	MATRIC NO:	PROGRAMME:
1. Crystallization techn	ique is used to obtain	solids (1 Mark)
2. A suitable solvent fo	r recrystallization is one that readil	ly the solute
when hot but not wh	en it is	(2 Marks)
 Crystallization is the highly organized into 	process by which a solid forms, we a structure known as a	where the atoms or molecules are(1 Mark)
4. Over a range of temp	perature, the best solvent for recrys	tallization exhibits a very big in solubility. (1 Mark)
	w cooling gives	
6. Acetylsalicyclic acid	is also commercially referred to as	s(1 Mark)
7acetylsalicyclic acid	is the byproduct obtain	ned in the laboratory synthesis of (1 Mark)
		nsidered suitable for crystallization (1 Mark)
9. synthesize aspirin in	and the laboratory.	are the major chemicals used to (2 Marks)
10. KMnO ₄ and	can be us	ed to test for unsaturation in the (1 Mark)
11. The structure below i	s called	(2 Marks)

1	COOL
	LOH

12. The structure below is called (2 marks) 13. Polar solvents dissolve _____ while non-polar solvents dissolve ____ 14. The solubility of a soap depends on ______ of the carbon (1 Mark) 15. Two examples of laboratory glass wares are _____and ____(2 Marks) 16. What is Saponification? (2 Marks) 17. Coconut oil contains mainly and acids (2 Marks) 18. Lard differs from tallow, in that lard contains more ______(1 Mark) 19. Coconut oil is usually added to produce soap, because it makes soap _____ (2 Marks) 20. Olive oil contains mainly _____ acid (1 Mark) 21. Toilet soaps are usually made from ______oil (1 Mark) 22. KMnO₄ has a ______ colour (1 Mark) 23. The catalyst used in the synthesis of aspirin is called_____(1 Mark) (2 Marks) 24. The structure below is called hydrocarbons can add more hydrogens to themselves (1 Mark) 26. Water can be a recrystallization solvent between _ (2 Marks) 27. Prop-2-yne is ______,while 2,3-dichloropentane is ______(2 Marks)